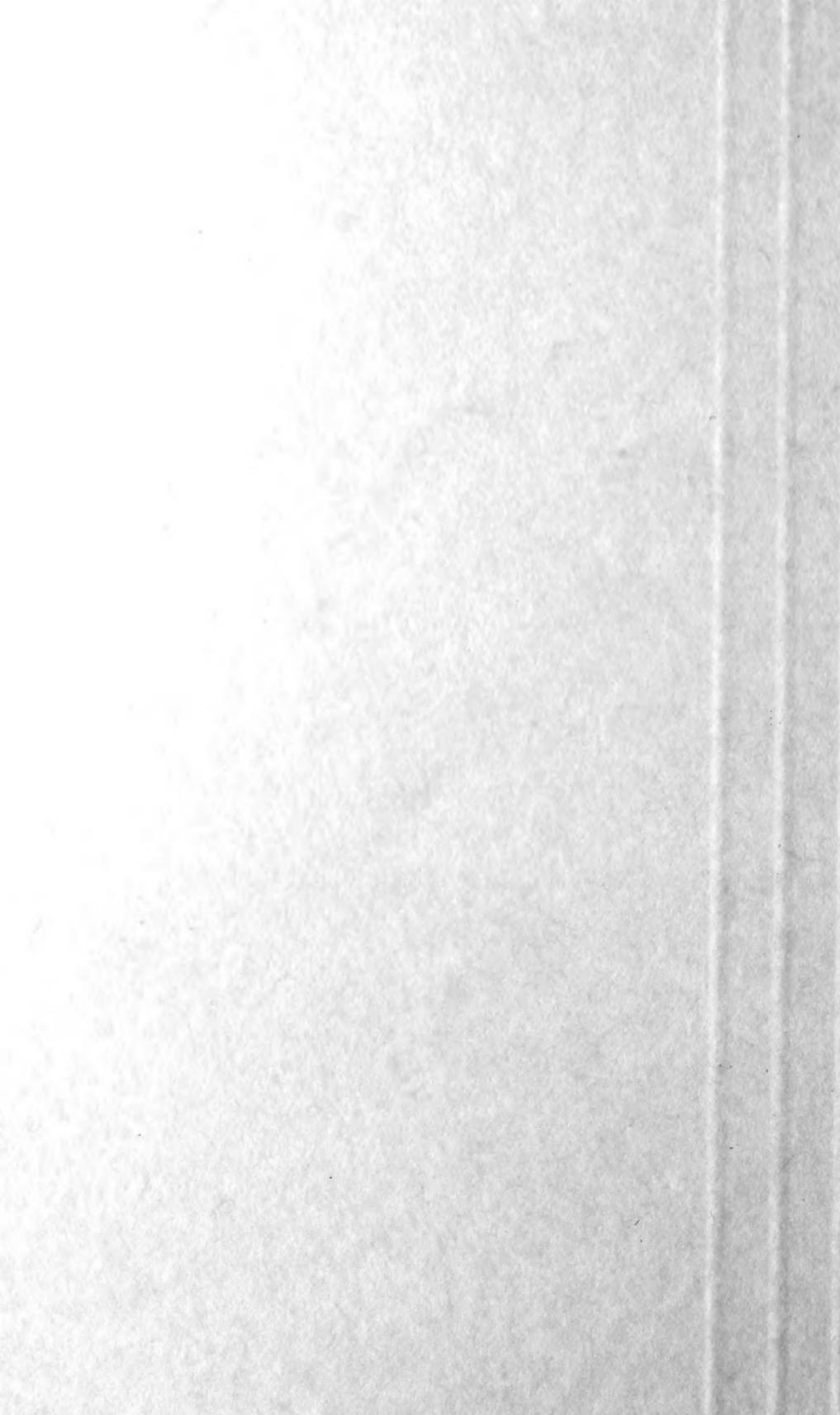
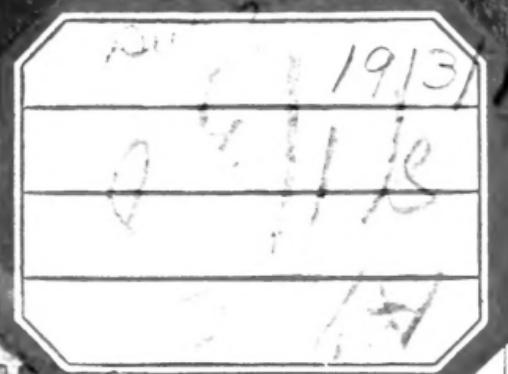


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U. S. Department of Agriculture

Prospectus

John H. Allan Seed Co.

SHIBOYGAN, WIS.

U. S. A.



HAND BOOK

OF

Standard and Choice Varieties

OF

Peas & Beans

GROWN BY THE

John H. Allan Seed Company

ESTABLISHED
1856

INCORPORATED
1892

1913---1914

FOREWORD.

The John H. Allan Seed Company was established in 1856 by Mr. John H. Allan at Picton, Ontario. In 1892 it was purchased by its present management. Later moved into the jurisdiction, and incorporated under the laws of New York State. In 1902 the business was moved to the State of Wisconsin, and in 1909 reincorporated under the laws of that Commonwealth, with executive offices and main ware-houses at Sheboygan, situated on the banks of Lake Michigan and in the heart of the finest pea growing sections of the middle West, still maintaining branches for growing in New York, Canada and Michigan.

Shortly after location in Wisconsin a growing branch was established at Sturgeon Bay. Reaching in all directions from this central point lay vast acreage of most fertile and productive soil from which have been taken prolific crops of all standard varieties of peas and beans grown in this country.

From this new vantage point the business expanded until to-day it occupies a position in the front rank of the growers of pea and bean seed of the world. In 1911 a growing branch was established in the West with ware-houses at St. Anthony, Idaho, opening up the sections of Idaho, Montana, Utah,

Washington and Oregon which have been reclaimed and fertilized for growing by the plans of Reclamation and Irrigation undertaken by the United States government.

While we are growing at the present time virtually all standard varieties of peas and beans used in America we also have developed, and are constantly experimenting with many fancy and choice varieties.

We maintain our own trial grounds in which we have sample rows of each variety of seed planted in any growing season for our trade. Here we can carefully watch and study the temperaments of the plants, habits of growth, germination, length of straw, size and color of pods and all other items making for a systematic and careful study of the vegetation of peas and beans. Although we give some attention to experimenting with and developing fancy varieties, our first concern is the keeping of our standard stocks in thoroughly clean and reproductive condition. Peas and beans have been developed from the natural weed or vetch by the diligence and sagacity of the specialists, covering a period of hundreds of years. Constant care is necessary to prevent their going back whence they came, notwithstanding the high grade of perfection to which the seed may have previously been brought.

Not only is it necessary to maintain con-

stant and careful study of the plants themselves, but also of the soil in which they are grown, of the influence exerted upon them by varying quantities of water. This latter fact has led to a great deal of investigation as to the relative merits of surface and sub-soil irrigation.

The rogueing of our fields is very carefully and thoroughly done by trained and experienced men. We maintain a corps of several hundred employees so that the stocks may be carefully scrutinized in preparation for the trade.

It is the fixed policy of the John H. Allan Seed Company, from which it does not deviate, first to maintain a high quality of standard variety seed, as high as continual and systematic watch-care will permit, second to develop new varieties which may prove in any particular to be improvements over the old.

We are growers for the trade and for canners. We are not jobbers. We are not retailers. And under no circumstances do we knowingly compete in the market with our patron jobbers for retail trade. This fact alone entitles us to a greater degree of consideration than that accorded to houses which are contract growers, jobbers and retailers.

We plant sufficient seed to produce, under ordinarily favorable conditions, the quantities

which we have contracted with the trade to deliver. Time was when we did not have a supply of seed stocks any larger than that absolutely necessary to be maintained to fill our yearly contracts. However a number of years ago we foresaw that if we were to become as valuable to the seed trade as we hoped to be we must needs increase the seed stocks up to a point where we not only could take care of the contract requirements of our trade, but so far as possible become a supply house for their further wants. This plan we have steadfastly maintained until we now have a seed stock of thoroughly uniform character and ample to meet the most exacting demands of the seed trade.

Owing to the fact that no man can control against adverse weather conditions the perfection or volume of his crops, we are under a constant uncertainty as to the amount of seed which will be returned to us from that sown. Therefore we cannot and do not guarantee deliveries. In case of short crops, fire, or any other shortage cause beyond our control, we deliver pro rata to all of our contract trade, after reserving the necessary amount of seed for the following season's growing. It is obvious upon consideration of these facts that the above is the only course which can in equity and fairness to all be maintained.

General.

Peas in general may be divided into several separate groups, in accordance with the habits of growth and the season of seed maturity.

For convenient reference the different varieties will be grouped as follows:

1. Extra Early, Smooth Seeded.
2. Early, Wrinkled Seed.
3. Dwarf Early Varieties.
4. Medium and Late Varieties, Half Dwarf.
5. Late, Tall Growing Varieties.

Extra Early Variety—Smooth Seeded.

While the growing of peas is a simple matter, to maintain a strain of Extra Earlies that keeps its place at the head of the line for earliness, hardiness, productiveness and uniformity requires constant and intelligent care and watchfulness; and Allan's Early Dexter, introduced years ago and followed later by Allan's Maud S and Sunol, have ever been and are now in the front rank and acknowledged as such throughout the world where extra early peas are grown.

ALLAN'S SUNOL.—Introduced in 1893. For earliness and purity without a rival. Vines vigorous, hardy, productive and uniform. Sometimes throws laterals from the base of the stalk. Bearing from four to sev-

en pods of good shape, containing from five to six peas each and of good flavor. Seed light cream color slightly dented and pitted. Height 30 in.* Pod about 2½ in. long, round, nearly straight, usually rounded out at the point.

ALLAN'S MAUD S.—An improvement on Early Dexter, from which it was obtained by hybridization and careful selection and culture. Possesses extraordinary degree of vitality, having matured a full crop in some sections where severe frosts had ruined other varieties. Extremely valuable for southern market gardeners who plant for early market at season when frosts frequently occur after growth has begun. Undoubtedly the most popular early pea for market gardeners yet introduced. Seed round, light cream color, slightly dented. Straw about 30 in. long.

*Caution.

Although we are giving straw lengths in the descriptions following it should be understood by readers that the length of straw may vary in different localities between wide limits, in accordance with soil conditions. Often on the same field the straw length will vary owing to differences between low and high ground, clay soil or black loam. The lengths therefore are average ones arrived at by observations in our growing.

ALLAN'S EARLY DEXTER.—The standard extra early pea for ordinary use. Early, productive, hardy and vigorous. In general use by market gardeners throughout America for the past thirty years. Has proved to be reliable and conservative in its habits. Seed light cream color, round, slightly dented. Straw about 30 in. long.

PEDIGREE EXTRA EARLY.—Not as early as Maud S and Sunol. Vines are healthy, vigorous and prolific, very similar to Sunol but not quite as early. Seed light cream color, smooth. Pods $2\frac{3}{4}$ in. long. Straw 30 in. long.

PROLIFIC EARLY MARKET.—Medium early, larger podder than Alaska and quite as prolific. Handsome pods, blunt end and of light green color. Seed of light cream color, smooth and round. Straw 30 in. long.

RURAL NEW YORKER.—An Extra Early of great productiveness and vigorous growth, Seed light cream color and round. Straw 30 to 36 in. long.

FIRST AND BEST.—Early, productive and hardy, with a strong vigorous vine, which is light in color and uniform in growth. Pods straight $2\frac{1}{2}$ to $2\frac{3}{4}$ in. long, round, light in color and blunt at the ends. Seed light cream color, smooth and round. Straw 30 in. long.

SAXONIA.—Decided advance in Extra Early strain. Fully as early as other early varieties. Pods nearly double the size and more prolific than others of First and Best class, appearing in large quantity, usually in pairs. Free from wild tendencies and very hardy and vigorous. Matures for market quite as early as First and Best. Seed light cream color, pods $3\frac{1}{2}$ to 4 in. long. Straw 24 to 30 in. long.

DAY'S SUNRISE.—Very rugged, hardy vine, may be planted early. Matures early and uniformly. Good for market gardeners and truckers. Seed light cream color, round and smooth. Straw 30 in. long.

ALASKA.—Well known and extensively used, especially by canners. Very early and when carefully grown, uniform in ripening. The foliage has a peculiar light green color which distinguishes it from most other sorts. Pod $2\frac{1}{2}$ inches long, round, well filled. Seed round, blue, slightly pitted, height $2\frac{1}{2}$ feet. Pods retain dark green color, keep well in basket.

BRUNSWICK GREEN.—Very Prolific. About two weeks later than Alaska. Bears pods about the same size as Alaskas but close to the top of the vines. Similar in maturity to Concordia. Seed green, round and smooth. Straw 28 in. long.

ALLAN'S CONCORDIA.—About two weeks later than Alaska. Has only single vine like Alaska, and bears similar pods in abundance close to the top of the vine like Market Garden. Seed green, round and smooth. Straw 24 in long.

AMEER.—Resembles Alaska in manner of growth and appearance. Pod longer and larger, and peas larger. Pods about 3 in. long and slightly curved. Seed larger than Alaska, round and smooth, slightly dented, of bluish green color, straw 30 in. long.

CLAUDIT.—In general habit resembling Ameer and ripening at almost the same time. Pods well filled to the point, 3 in. long, straight and well shaped. Seed round, slightly dented, light green color. Straw 30 in. long.

BOUNTIFUL.—Resembling Ameer in general habit of growth. Vines light green in color, pods $3\frac{1}{2}$ in. long. Seed bluish green, medium and pitted. Straw 30 in. long.

Early Variety — Wrinkled Seed.

Much care has been expended to produce a pea which shall ripen with the first and at the same time have the tender and delicious quality of the wrinkled varieties. This was accomplished a few years ago in Surprise and Eclipse, while in Gradus and Thomas Laxton we have the unexpected result of having a

large wrinkled pea with pods similar in shape and size to the Telephone, ripening with the Extra Earlies.

GRADUS.—Probably no pea has yet been introduced which in so short a time has become so widely distributed and so much sought for. Here we have a large wrinkled early pea with a pod nearly as large as Telephone, with large peas, tender, of good quality and flavor. Very quick to germinate, maturing with the earliest sorts, and with quick, warm, rich soil and favorable conditions a fairly good cropper, but very disappointing under adverse surroundings. Foliage large and luxuriant, pale green. Pods 4 in. long, straight, slightly rounded at the point. Seed large, wrinkled, cream color tinged with green, height, 36 in. long.

EARLY MORN.—Improved stock similar in growth to Gradus but earlier than either Gradus or Thomas Laxton. Large pods and a good cropper, pods 4 to 4½ in. long, full of very large peas. Excellent market garden variety for early use. Crops prolific, maturing in about sixty days after planting. Seed large, wrinkled, cream color, blended with pale green. Straw 36 in. long.

THOMAS LAXTON.—Closely resembling but hardier than Gradus in habit and rapidity of growth, earliness and luxuriance of foli-

age. The pod is of a darker color and shorter than Gradus, blunt and square on the end instead of rounded. Although the pods are shorter they are very well filled and very prolific, in many cases exceeding Gradus in this respect. pods $3\frac{1}{4}$ in. long, seed large, wrinkled cream color, blended with pale green. Straw 36 in. long.

ECLIPSE.—Resembles Alaska and First & Best in vine and size of pod. Has delicate flavor and tenderness of wrinkled varieties. Used largely by canners. Pods $2\frac{1}{2}$ in. to 3 in. long. Seed green, wrinkled and small in size. Straw 30 in. long.

SURPRISE. Only slightly differing from Eclipse. Resembles Alaska and Maud S but with tender qualities of early wrinkled varieties. Pod $2\frac{1}{2}$ in. long, round, straight and well filled. Seed small green and wrinkled. Straw 30 in. long.

Dwarf Early Varieties.

NOTT'S EXCELSIOR.—Robust and vigorous in growth. One of the best dwarf wrinkled peas in cultivation. Very sweet and prolific. Resembles in habit Carter's Premium Gem but is more uniform in growth and a heavier yielder. Vines somewhat more vigorous than American Wonder and pods larger. Peas packed tight in pods. Throws off laterals from the base of the stalk producing in

profusion long handsome pods. Foliage rather light. Pods light green in color, straight and round and 2½ in. long. Seed green, wrinkled, inclined to be square from packing in the pods. Straw 14 in. long.

SUTTON'S EXCELSIOR.—Very popular dwarf wrinkled variety. Vines somewhat more vigorous than Nott's Excelsior. Very productive and prolific cropper. Pods large, broad and well filled with large peas. Vines strong and rugged and require no support. Pods heavily set and often produced in pairs, to the point, of pale green color. Seed pale green wrinkled. Straw 16 in. long.

LITTLE MARVEL.—Superior to Nott's Excelsior in size, quantity and quality of pea. Pods heavily set and often produce in pairs, of dark green color well filled to the end with large peas, and about 3 in. long. Vines are strong and robust. Straw 15 in. long.

AMERICAN WONDER.—Vigorous, productive, with dark and luxuriant foliage. Responds generously to high culture. Peculiar in producing leaves on one side of stalk. Pods dark green, straight, well filled and crowded to the end, 2½ in. long. Seed green, wrinkled and often square at the ends. Straw 10 in. long.

TOM THUMB.—One of the earliest and hardiest of dwarf varieties. A round seed-

ed pea, very prolific, but not of good quality for table use. Pods pale green, about $2\frac{1}{2}$ in. long, round, nearly straight and well filled with peas. Seed small, round and white. Straw 12 in. long.

MCLEAN'S BLUE PETER.—Hardy, very uniform, robust and fairly productive. Pods broad, straight, $2\frac{1}{2}$ in. long, blunt ended and carried close to the top of the vines. Peas have fairly good flavor. Seed round, blue, slightly flattened and dented. Straw 12 in. long.

RICHARD SEEDON.—Luxuriant growth. As early as American Wonder and a somewhat more abundant bearer. Pods deep green, crowded with seven to nine large sweet peas. Straw 18 in. long.

CARTER'S PREMIUM GEM.—One of the most popular peas of this class in America. Hardy, prolific and uniform in habit of growth. Foliage dark even in growth and productive. Pods $2\frac{1}{2}$ in. long, nearly straight, round, well filled to the end and borne singly on both sides of stalk beginning near the ground. Peas of fine flavor and produced about a week later than American Wonder. Seed green and wrinkled. Straw 18 in. long.

MCLEAN'S LITTLE GEM.—Similar to Carter's Premium Gem but more straggling in growth. Pods not quite so well filled. Seed light green and wrinkled. Straw 18 in. long.

Medium and Late Variety—Half Dwarf-Wrinkled.

PRIZE WINNER.—Similar to McLean's Little Gem, hardy and prolific. Foliage dark. Pods $2\frac{1}{2}$ in. long, nearly straight, well filled to the end. About a week later than American Wonder. Seed green, wrinkled. Straw 24 in. long.

CARTER'S DAISY.—This pea was introduced about the same time as Allan's Dwarf Telephone and although the two are of different parentage they resemble one another greatly. Vines are medium green with distinct curly appearance when young. Pods long, pointed and abundantly borne. Seed green, wrinkled. Straw 20 in. long.

ALLAN'S DWARF TELEPHONE.—This pea resulted from hybridization between Stratagem and Telephone. Season medium, ripens about a week earlier than Stratagems. Pods, 4 in. long, broad, straight, rounded at the point, pale green in color and well filled, frequently containing ten peas. Seed pale green, much wrinkled and shrivelled. Straw 20 in. long.

MCLEAN'S ADVANCER.—An old and well known variety largely used by market gardeners and canners. Vines upright and vigorous in growth, hardy and productive. Foliage dark green, Pods $2\frac{3}{4}$ in. long, round,

borne abundantly near the top of stalks. Peas a little under medium size, of finest quality. Seed green, wrinkled. Straw 22 in. long.

PRINCE OF WALES.—An old standard and popular variety, particularly in England, and used by canners who wish a pea of large size. It is sweet, tender and light in color. Hardy, vigorous and upright in habit. Pods 3 in. long, broad, straight and well filled. Produced abundantly in pairs at the top of vines. Seed light cream color, wrinkled and flattened. Straw 30 in. long.

SHARPE'S QUEEN.—Sturdy branching habit. Needs to be sown thinly. Pods are 4 in. long slightly curved, large and well filled with peas of dark green color and delicious flavor. Seed dark green and wrinkled. Straw 24 in. long.

HORSFORD'S MARKET GARDEN.—Resembles Carter's Premium Gem in habit and growth, but about $\frac{1}{3}$ longer and 10 days later, very prolific, requires no bushing, and bears its pods in pairs. Foliage dark green; used more largely by canners than any other wrinkled variety. Pods $2\frac{1}{2}$ in. long, straight and blunt. Not so well filled as Gems or Advancers but borne more abundantly. Seed green, wrinkled and medium size. Straw 24 in. long.

JUNO.—Robust, vigorous, remarkably uniform in growth, so much so that the tops of the

vines present an almost level appearance. Pods 3 in. long, broad, blunt ended, frequently in pairs and usually well filled. Seed green, tinged with straw color. Straw 22 in. long.

ABUNDANCE.—Vigorous in growth. Produces pods in great abundance although of medium size. They are well filled with peas of good quality and quite similar to Market Garden, but about a week later. Pods are dark green in color. Seed green, wrinkled. Straw 20 in. long.

HEROINE.—Strong and vigorous, producing an abundance of fine large well filled pods about 4 in. long and curved. Foliage luxuriant. Very true and fixed in its habits of growth. Seed green, very wrinkled. Straw 24 in. long.

POTLATCH.—Vigorous growth and strong. Foliage luxuriant and of dark green color. Pods 3½ in. long, medium green color, broad and pointed at the ends. Seed green, and wrinkled. Straw 24 in. long.

SUTTON'S DWARF DEFIANCE.—Vigorous and hardy. Resembles Carter's Stratagem. Foliage coarse and dark green. Uniform in growth and free from sports or runners. Pods 4 in. long, broad, pointed and dark green in color. Seed large, green and wrinkled. Straw 20 in. long.

DANDY STRATAGEM.—Carefully selected

Pedigree stock. Distinct advance on old Stratagem. Grows taller, more vigorous and prolific. Straw 30 in. long.

CARTER'S STRATAGEM.—Vigorous habit. Luxuriant foliage. Of good culture and abundant cropper. Tendencies to sportiveness make it difficult to control. Vines dark green. Pods 4 in. long, straight, broad, rounded at the point. Seed very large, green and wrinkled. Straw 20 in. long.

IMPROVED STRATAGEM.—Improvement on old Carter's Stratagem. Heavy cropper and of vigorous habit. More regular in growth than old Stratagem. Pods $4\frac{1}{2}$ in. long, large, broad, dark green in color. Peas large and of superior quality. Seed large, green and wrinkled. Straw 20 in. long.

PRIDE OF THE MARKET.—In habit of growth and general appearance of both vine and pod it resembles Carter's Stratagem. Pods deeper green in color and straw not quite so long. Pod $3\frac{1}{2}$ in. long, broad and straight. Seed blue and only slightly wrinkled. Straw 20 in. long.

YORKSHIRE HERO.—An old and well known variety and justly prized for its genuine worth. It is hardy, productive, upright in growth, stout and branching. Foliage dark green. Season rather late. Pods 3 in. long, blunt, broad, light green in color and borne in

quantities near the top of the stalk. Seed large, green, wrinkled and flattened. Straw 30 in. long.

SHROPSHIRE HERO.—A later variety than, and an improvement over Yorkshire Hero. It bears in greater abundance and carries larger pods. Used by some canners desiring a large pea, tender and light in color. Pods 3½ in. long, curved and of light green color. Seed green and very much wrinkled. Straw 24 in. long.

EVERBEARING.—Vigorous and branching in habit of growth. The vines are closely jointed, and frequently form as many as eight to ten stalks from a single root stalk. Pods 3 in. long, broad, blunt, of fair size and light colored. Seed green, wrinkled and of good size. Straw 30 in. long.

DWARF CHAMPION.—Habit strong and vigorous. Very productive variety. Pods 3 in. long, heavy and blunt at the end. Seed medium size, green and wrinkled. Straw 30 in. long.

FILLBASKET.—Hardy, prolific, upright in habit. Grows with branches and dark green foliage. Pods 3 in. long, round, slightly curved and well filled with peas of medium size. Seed round and green. Straw 30 in. long.

IMPROVED FILLBASKET.—Distinguished from the old and well known Fillbasket in

having pods that are broader and longer and larger in every way. Pods $3\frac{1}{2}$ in. long and well filled. Seed smooth and green. Straw 30 in. long.

Late Variety, Tall Growing.

ADMIRAL DEWEY.—In front rank of all large podded, long vined peas. Remarkably healthy, vigorous and very productive. Almost entirely free from sports. Foliage dark green. Pods frequently six inches long, straight, rounded on the end and dark green in color. Seed large, green and wrinkled. Straw 42 in. long.

ALDERMAN.—Very large podded pea, robust, vigorous and good producer. Pods larger and longer than Telephone or Duke of Albany, $4\frac{1}{2}$ to 5 in. long, straight and pointed at the end. Seed, green, wrinkled. Straw 45 in. long.

DUKE OF ALBANY.—Resembling Telephone in appearance. The vine not quite so long, and the pods a little longer and larger and more abundant. Shows some tendencies to sport. Pods 4 to $4\frac{1}{2}$ in. long, light green in color. Seed light green, very much wrinkled. Straw 40 in. long.

CARTER'S TELEPHONE.—Vines and leaves large and coarse. Sportive tendencies. Pods 4 in. long, nearly straight, rounded at the point, light green in color, and well filled

with large tender peas, sweet and of good flavor. Seed light green, very much wrinkled. Straw 42 in. long.

ALLAN'S IMPROVED TELEPHONE.—An improvement on Carter's Telephone. Sportive tendencies largely eliminated. Pods somewhat longer and larger and of darker green color, presenting a fine appearance. Pods 5 to $5\frac{1}{2}$ in. long, dark green and pointed. Seed large, green and wrinkled. Straw 42 in. long.

CULVERWELL'S TELEGRAPH.—Resembling in all respects as to vine, leaf and pods Carter's Telephone, except that they are a darker green and peas of only fair quality. A favorite with some market gardeners on account of the fine appearance of the pods in the basket. Pods 4 to $4\frac{1}{2}$ in. long, medium dark green and pointed. Seed dark green, round and dented. Straw 40 in. long.

ALLAN'S IMPROVED TELEGRAPH—Resembling in general appearance and habit of growth Culverwell's Telegraph, but more vigorous and a little longer vine. Pods are 4 to $4\frac{1}{2}$ in. long, a little darker in color than Culverwell's, straight and very broad. Seed bluish shade of green, smooth and slightly dented. Straw 44 in. long.

LONG ISLAND MAMMOTH.—Very popular with market gardeners who want a large handsome pod, color darker green than Tele-

phone. Vines stronger, hardier and larger than Telephone. Foliage dark green. Seed dark green, round and dented. Straw 42 in. long.

ALLAN'S IMPROVED LONG ISLAND MAMMOTH.—The great advantage of this variety over the old strain of Long Island Mammoth is the fact that while the latter has always grown quite a quantity of small pods, and has been hard to keep true, the Allan's Improved strain is usually constant and true with a low percentage of sports. Pods are about as long and broader and little lighter in color. Seed bluish green, smooth and dented. Straw 44 in. long.

ADMIRAL.—A long vine medium seasoned pea bearing in great profusion pods at the top of the vine. Foliage medium green. Pods $2\frac{3}{4}$ in. long, straight, round, well filled to the end. Pea rather small size, very hardy and productive. Light green in color. Seed small, cream color and wrinkled. Straw 40 in. long.

CHAMPION OF ENGLAND.—Much prized by those who are fond of a large, tender and luscious pea. Hardy and vigorous in growth, foliage medium green. Pods 3 in. long, blunt, medium dark green in color, broad and nearly straight. Seed light green, very much wrinkled. Straw 48 in. long.

FRENCH CANNER.—A popular and de-

sirable variety for canners. Vigorous and hardy and very prolific. Season medium late. Pods 3½ in. long, slim, round and curved, having 7 to 10 small peas per pod. Seed very much wrinkled. Straw 48 in. long.

IMPROVED SUGAR MARROW.—Entirely distinct from old White Eye Marrowfats. Pods 3 in. long, beautifully shaped, well filled with peas of true Marrow flavor, but somewhat smaller in size. Seed small, white, slightly pitted or dented. Straw 42 in. long.

GREY SUGAR.—Old variety of edible podded sort and used only in that way. Pods are broad, flat and crooked. Seed brown and wrinkled. Straw 28 in. long.

BLACK EYE MARROWFAT.—Hardy, strong and vigorous, bearing broad, thick, leathery pods, 3 in. long near the top of the vine, and containing 4 to 5 large peas of indifferent quality. Not very largely used for table purposes. Foliage light green color. Seed large, round, white with a distinct black eye. Straw 48 in. long.

WHITE EYE MARROWFAT.—Vines hardy, vigorous, bearing leathery pod near the top. Resembling in habit and appearance the Black Eye Marrowfat. Foliage light green. Pods 3 in. long, blunt and of light green color. Seed large, smooth and slightly oval. Straw 42 in. long.

CANADA FIELD.—Small, round, smooth white seeded pea. Used for commercial purposes or sown with other grains for feeding purposes. Straw 40 in. long.

SCOTCH.—Small, green peas used extensively for commercial purposes, good flavor for this use. Straw 36 in. long.

BEANS.

For convenience the different varieties of beans will be grouped under three general headings.

1. Dwarf Wax Beans.
2. Green Podded Varieties.
3. Pole Beans.

More recent years have shown a decided improvement in quality in the newer sorts. It is no longer sufficient that the pods be large and showy but the texture must be brittle and tender, free from tough fiber, and stringless. Among the newer sorts of special merit are Allan's New Wonder Wax, Hodson Wax, Round Pod Kidney Wax, Allan's Stringless Wax, Webber Wax, Burpee's Stringless Green Pod, Hodson Green Pod, and J. & S. Giant Pod.

Dwarf Wax Beans.

ALLAN'S NEW WONDER WAX.—Large plant without runners, spreading with dark green foliage and bearing very heavily. Season early. Pods very brittle, stringless, large and yellow in color. Very rich in flavor and prolific.

ALLAN'S STRINGLESS WAX.—Not yet on the market in large quantities. Early stringless variety. Hardy and very prolific. Pods 6 in. long, light yellow waxy color and

well filled. Cross between Burpee's Stringless and Valentine Wax. Excellent for market gardeners.

DAVIS KIDNEY WAX.—Has large and showy pod of white waxy color 5 to $5\frac{1}{2}$ in. long, flat, wide and straight, strong, thick fiber. The plant is upright and holds the pods well up from the ground. Fairly productive. Seed white, kidney shaped. Height 14 in.

KEENEY'S RUSTLESS GOLDEN WAX—A strong growing variety throwing out tendrils or runners, setting the first pods early near the base of the stalk while pushing out the buds at the top of the vine thus producing a great number of pods maturing in succession over a long period. It has remarkable vigour and freedom from rust, and combines hardiness with productiveness and fine quality. Pods 3 to 4 in. long, meaty and well filled, thick, flat when young, and semi-round later, yellow and of good quality. Seed very similar to Golden Wax.

GOLDEN WAX GRENELL'S IMPROVED.—This is a great improvement on the old strain Golden Wax, for as the latter is subject to blights making it difficult to grow, Grenell's Improved Strain is so hardy and so much less liable to blight or rust that it is one of the best croppers and one of the most desirable to grow of all of the Wax varieties.

The pod is not so large nor so long as that of the old strain, neither does it turn to a golden color at so early a stage in its growth. But its greater reliability and productiveness make it a more desirable sort. Pods $3\frac{1}{2}$ to 4 in. long, straight, flat, meaty, very light cream wax color, for very good quality. Seed somewhat splashed with crimson, the white portion being larger and more distinct than that of the old strain of Golden Wax.

CURRIE'S RUST PROOF BLACK WAX.—One of the earliest and best wax beans for market gardeners. Has very little string in early stages but develops a little more when nearing maturity. Pods $4\frac{1}{2}$ to 5 in. long, tender and of fine quality, flat, long, nearly straight and possessing high degree of freedom from blight or rust, and has reliable cropping qualities. Seed larger than Black Wax, purple or brownish black.

HODSON WAX.—A new and distinct variety, about ten days later than others but surpassing most others in its combination of large handsome pods, good quality and immunity from rust. Strong vigorous habits of growth with tough healthy foliage. Pod 6 in. long of golden waxy color, nearly straight, thick, flat and meaty. Seed medium size, crimson with marking of a light shade. Vine grows about 16 in. high.

DETROIT WAX.—Early, hardy, healthy and productive. Pods 3½ to 4 in. long, light cream color, flat, broad, straight and of only medium quality. Seed white with dark brown or black mark about the eye.

WARDWELL'S KIDNEY WAX.—On account of the large size, handsome appearance and good quality of the pods this is one of the most popular wax bean varieties in use. When conditions and surroundings are all favorable it is a most excellent cropper, but being of a tender habit and constitution it is easily susceptible to adverse influence, and is therefore an uncertain cropper. Upright in growth with pods 5 to 6 in. long, broad, flat and of beautiful light waxy color and of fine quality. Seed kidney shape, white, blotched and splashed with purplish brown about the eye.

WEBBER WAX.—Vine strong, holding pods off of ground. Similar in shape of pod to Wardwell's Kidney Wax. Pods bright yellow. Seed yellow.

ROUND POD KIDNEY WAX.—Hardy, productive, prolific and seems to be of healthy constitution. Pods 6 in. long, curved, round, meaty, stringless, tender, brittle and of first class quality. Seed small, white with peculiar marking of very dark brown or black near the eye.

BRITTLE WAX.—Pods round, tender, stringless, 6 in. long, curved. Habit of growth, pod and ripened seed very similar to Round Pod Kidney Wax.

ROYAL PURPLE WAX.—This new wax bean had great merit. Plant large, without runners; the season is early; the leaf is large, medium green; wide across leaflets; pods are round and yellow in color, stringless, without fibre. Owing to its being a prolific bean and tender, it will be much in demand by those wanting a first class round pod wax bean.

REFUGEE WAX.—This has the same habit, length of vine, foliage and size and shape of pods as Extra Early Refugee, from which it was obtained, but the pod is a beautiful white wax color, curved, round, thick and nearly stringless when young. Wealthy foliage and so liable to blight as some other sorts. Seed like Early Refugee but more glossy in appearance.

VALENTINE WAX.—A selection from Red Valentines which it closely resembles in seed, habit of growth and pod, except it is a little more dwarf and the pod is a beautiful wax color. Pod around, curved, solid and meaty, very fine quality when young; one of the earliest to ripen.

GOLDEN EYE WAX.—Early, remarkably strong, vigorous and productive, vine and

leaves large and coarse. Pods long, straight flat, of fine appearance, but coarse in texture and of poor quality. Seed white, blotched with yellow.

HORTICULTURAL WAX.—Quality excellent, large cropper. Resists rust admirably. It is second early, about two weeks later than Wardwell's Kidney Wax.

FLAGEOLET WAX.—Vigorous upright habit, 14 in. tall, tough leathery foliage, wax pods 5 to 6 in. long, flat, straight. Seed large kidney shaped, very deep crimson shading toward purple.

DWARF BLACK WAX CHALLENGE STRAIN.—Vine about 10 in. high, early and very productive. Pods $3\frac{1}{2}$ in. long, white, waxy color, round, curved, meaty and remarkably tender and of delicate flavor. Quality first class. Seed small, glossy, black.

DWARF BLACK WAX PROLIFIC STRAIN.—Strong, healthy foliage, 12 in. high, thick, nearly straight, meaty pods, 4 to $4\frac{1}{2}$ in. long, creamy white in color of good quality. Seed oblong, black.

DWARF BLACK WAX PENCIL POD STRAIN.—Season medium, vigorous habit, healthy foliage, 15 in. high, pods golden waxy color, 6 to $6\frac{1}{2}$ in. long, curved, meaty round, brittle, tender, stringless, of excellent quality. Seed long, round, black.

Green Podded Varieties.

BURPEE'S STRINGLESS GREEN POD.—Vigorous and upright in habit, but not so hardy as some other sorts, as in many instances it shows a disposition to blight or rust. The quality of the pods is first class, 5 to 6 in. long, slightly curved, round, meaty, stringless and tender. Seed medium size, dark brown with a darker marking at the eye.

J. & S. GIANT POD VALENTINE.—Healthy vigorous habit, 16 in. high, pods 5 to 6 in. long, nearly straight, large, round, meaty, stringless, of fair quality. An abundant producer of large showy pods. Seed medium size, yellowish brown.

CANADIAN WONDER.—Similar to Warren Bush. Vigorous and upright in growth. Pods long, flat, straight, 6 in. long. Color dark green. Seed large, brick red color.

WARREN BUSH.—Vigorous and upright in growth, producing very broad flat pods, 4 in. long, straight, very dark green, that are tender and of very fine flavor, much prized in the limited sections where it is grown. Seed large, oval, thick, purplish brown.

BEST OF ALL.—Vigorous, branching habit, a profitable and popular sort throughout the South. Season medium late. Pods thick, straight, 5 to 6 in. long, light green in color.

splashed with carmine. Seed cream color, splashed and streaked with dull red.

EXTRA EARLY REFUGEE.—A variation from the old and well known Refugee or Thousand to One, more dwarf and compact in growth, and a long way earlier, being fit to pick nearly as early as Six Weeks. Pods round, light green, nearly straight, solid, tender, and of good quality, either for canning or pickling. Seed resembles that of early Refugee.

LATE REFUGEE, OR ONE THOUSAND TO ONE.—Vines large, spreading, bearing in great abundance long, cylindrical, whitish green pods, tender and very desirable for canning and pickling. Season late. Seed long, slender, drab splashed with purple.

HODSON GREEN POD.—Hardy, vigorous, upright in growth holding pods well up from ground. Early, remarkably uniform in height and ripening making it most desirable for market gardeners. Seed medium size, crimson.

TENNESSEE GREEN POD.—Prolific. Foliage dark green, leaves large and crumpled. Pods long, flat, irregular in shape, light green and good quality. Seed oval, flat, yellowish brown in color.

EARLY MOHAWK.—Perhaps the oldest of all the green podded sorts grown. Hardiest

of all, even successfully resisting a slight degree of frost. Leaves and vines large coarse and straggling; early and very prolific; Pods 4 to $4\frac{1}{2}$ in. long, nearly straight, broad and flat, of only medium quality. Seed large, of purplish shade splashed irregularly with a lighter color.

CHINA RED EYE.—An old and well known sort, early, hardy, productive. Pods 4 to 5 in. long, flat, straight, of poor quality. Seed medium sized, white with a distinct red eye.

LOW'S CHAMPION.—Similar to Warren Bush. Upright in growth, fairly productive, very tender and stringless. Pods 4 in. long, straight, broad, and of good quality. Seed large, purplish red in color.

BOUNTIFUL.—This variety is well known and should have an extensive sale, as it is one of the best green podded beans on the market. As hardy and productive as Six Weeks, with stringless pods of excellent quality, it should take the place of that sort. Pods 6 to $6\frac{1}{2}$ in. long, broad, thick, meaty, stringless. Seed medium size, yellow.

LONG YELLOW SIX WEEKS.—Early, upright in growth, bearing in good profusion. Pods $4\frac{1}{2}$ to 5 in. long, slightly curved, of only fair quality. Seed long, yellow.

ROUND YELLOW SIX WEEKS.—Similar

to Long Yellow Six Weeks as to vine. Pods shorter and thicker. About a week later than Long Yellow Six Weeks. Seed round, yellowish, darker marking around eye.

GODDARD OR BOSTON FAVORITE.—Resembling Dwarf Horticultural in habit of growth and color of the pod, except that the vine is coarser and ranker in growth, the pods larger and longer. The pods are splashed with red toward the later period of growth and when shelled and cooked in a green state, the beans are of a very rich flavor and good quality. Seed similar to Dwarf Horticultural but longer.

DWARF HORTICULTURAL.—Vigorous, straggling in growth, plant throwing out tendrils or runners. Pods streaked and blotched with carmine. Used as shell beans, this, together with Goddard and Horticultural Pole, have long been favorites with those who have use for a shell bean of rich flavor and good quality. Seed light yellow, irregularly splashed with carmine.

LONGFELLOW.—Vigorous in growth, 16 in. tall, bearing abundance of pods 5 to 6 in. long, round, slightly curved, stringless when young, of good quality. Seed small, long, color mostly a dark red relieved by blotches and markings of a lighter shade.

EXTRA EARLY RED VALENTINE.—Sim-

ilar to Hopkins Improved Valentine. Vigorous and hardy, upright in growth. Pods slightly curved, round, light green. Seed medium size, crimson.

HOPKINS IMPROVED VALENTINE.—Hardy and vigorous, upright in growth, pods held well up from the ground. Early and remarkably uniform in height as well as ripening, making it one of the most desirable sorts for market gardening as a large proportion of the pods can be secured at one picking. Pods round, thick, solid, meaty, tender and of fine flavor. We find this to be as early as any strain of Valentines we have ever tested and fully as uniform of habit and ripening, with an almost entire absence of flat pods. We offer this strain with entire confidence. Seed medium size, crimson, frequently with markings of a lighter shade.

BLACK VALENTINE.—Vigorous and healthy foliage, bearing an abundance of pods 5 in. long, round, meaty, stringless, tender and of good quality.

LARGE WHITE MARROW.—This has a vigorous branching habit, vines covering the ground. Season medium late and beans of large size and of good quality both for shelling and using in the green state, or when ripened, they are much esteemed for cooking on account of their rich flavor. Seed large, oval or egg shaped, white.

RED KIDNEY.—Of vigorous, upright habit of growth. The beans being of large size and of rich quality and fine flavor, they are much prized on account of the superior quality both green and dry. Seed brick red in color, kidney shaped.

WHITE KIDNEY.—This is of vigorous upright habit and in quality much like White Marrow, and is used for the same purposes both as green shell bean, and after being ripened. Seed is large, long, kidney shaped, white.

SNOWFLAKE.—One of the best small pea bean varieties. Pods packed thick and carried in clusters. All ripen at pretty much the same time.

Pole Beans.

HORTICULTURAL POLE.—An old and well known variety, hardy, very productive, much esteemed for the rich quality and good flavor of the beans when shelled. Although it will make quite satisfactory return when the crop is grown without poles, the result is far more satisfactory when the crop is grown on poles. The pods, much like those of Dwarf Horticultural are green, streaked with carmine, as they approach maturity. Seed is similarly marked, but more nearly egg shaped.

RED CRANBERRY POLE.—Used either green or in dry state. Vines vigorous. Pods

short, pale green, becoming streaked with crimson. Seed large, oval and splashed with crimson.

KENTUCKY WONDER.—One of the earliest pole beans, bearing in great quantities clusters of light green pods, round, long, meaty and tender and of good flavor. Seed medium sized, light chocolate with darker eye.

OLD HOMESTEAD.—Excellent variety. Very productive. Pods a silvery green color, long, and stringless, hanging in clusters the whole length of pole.

SCARLET RUNNER.—An old and most popular flowering bean. Very vigorous in growth, and on this account forms a most delightful covering for trellis or screen; has clean healthy foliage bright scarlet blossoms, bearing tough, leathery pods which contain seeds of very large size, of rich flavor when cooked. When used as a green shell bean it is one of the finest of all the varieties. Seed very large, very dark crimson with markings of a lighter shade.





